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## DRFT 2266: Diploma Piping Fabrication Isometrics

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### EFFECTIVE DATE

September 2021

### DEPARTMENT

Drafting

### DESCRIPTION

This course is designed to teach students how to create fabrication isometrics from piping orthographic drawings and identify the information required on the isometrics for fabrication and field installation.

### CREDITS

1.0

### YEAR OF STUDY

2nd Year Post-secondary

### PREREQUISITES

DRFT 2100 Integrated BIM Project

### COREQUISITES

None

### COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Create isometric drawings from piping orthographics
- Locate field welds to optimize shipping and installation
- Prepare a Bill of Materials
- Distinguish shop materials from field materials
- Apply mark numbers to the individual fabrication sections
- Create the blocks required to complete the drawings
- Apply the concepts and processes at a higher level, in a 3D Building Information Modeling setting

### PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

## HOURS

Lecture: 10

Lab: 20

## INSTRUCTIONAL STRATEGIES

Lectures, video presentations, project-/problem-based learning, lab activities. The course may be offered face-to-face or in a blended format (mix of face-to-face and online)

## GRADING SYSTEM

Letter Grade (A-F)

## PASSING GRADE

D

## EVALUATION PLAN

Type	Percentage	Assessment activity
Project	60	Minimum of 3 project-based major assignments of approximately equal value.
Quizzes/Tests	10	
Final Exam	30	

## COURSE TOPICS

- Terminology, abbreviations, & symbols related to the piping fabrication industry
- Isometric Drawing Fundamentals
- Field Weld Placement
- Shipping Restrictions
- Mark Numbers
- Shop and Field Bills of Material

## LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:  
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

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